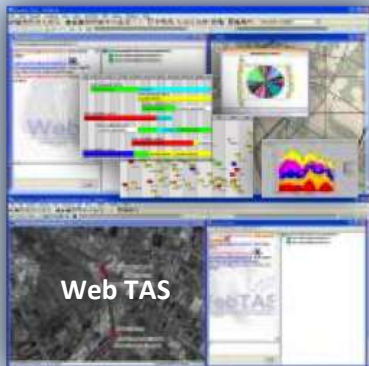


## Autonomy, Command and Control, Decision Support



### CHALLENGES

- Anticipate future adversarial and indigenous population activity and action
- Synchronize actions across air, space, and cyberspace
- Build trusted autonomous systems to enable machine-aided decision support
- Deliver agile C2 capabilities for future dynamic conflicts
- Provide rapid, continuous assessments of complex, cascading effects

### Near (FY11 - FY15)



- Nation state forecast of blue action ramifications for year projection, 6 regions in <30 min
- Optimize planning services across air, space, and cyber. More effects achieved
- Identification of C2 system anomalies in seconds and mitigation plans in minutes

### Mid (FY16 – FY20)



- Plausible adversary courses of action <85% confidence across air, space and cyber
- Dynamic planning and synchronization at increased scale and complexity, <30 min. Force multiplier
- Proactive resilient C2 service-based architectures. Cost effective/robust ops

### Far (FY21 – FY25)



- Multi-resolution models supporting projections from world-wide interactions to local conflicts
- Concurrent planning and execution (“living plan”)
- Self-adaptive/self-configure resilient C2 systems